

Nicolas Plachta

List of Publications by Year in descending order

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33
papers

1,838
citations

394421

19
h-index

454955

30
g-index

35
all docs

35
docs citations

35
times ranked

2472
citing authors

#	ARTICLE	IF	CITATIONS
1	A monoastral mitotic spindle determines lineage fate and position in the mouse embryo. <i>Nature Cell Biology</i> , 2022, 24, 155-167.	10.3	15
2	Cooperation-based sperm clusters mediate sperm oviduct entry and fertilization. <i>Protein and Cell</i> , 2021, 12, 810-817.	11.0	14
3	Cytoskeletal control of early mammalian development. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 548-562.	37.0	36
4	Specification of the First Mammalian Cell Lineages In Vivo and In Vitro. <i>Cold Spring Harbor Perspectives in Biology</i> , 2020, 12, a035634.	5.5	18
5	Novel approaches to link apicobasal polarity to cell fate specification. <i>Current Opinion in Cell Biology</i> , 2020, 62, 78-85.	5.4	9
6	Keratins are asymmetrically inherited fate determinants in the mammalian embryo. <i>Nature</i> , 2020, 585, 404-409.	27.8	69
7	Emerging mechanisms driving cell differentiation in vivo. <i>Current Opinion in Cell Biology</i> , 2020, 67, iii-v.	5.4	0
8	IMAGING HOW THE PREIMPLANTATION EMBRYO FORMS IN REAL TIME. <i>Reproductive BioMedicine Online</i> , 2019, 39, e5.	2.4	1
9	In Vivo Imaging of Single Mammalian Cells in Development and Disease. <i>Trends in Molecular Medicine</i> , 2018, 24, 278-293.	6.7	10
10	Expanding Actin Rings Zipper the Mouse Embryo for Blastocyst Formation. <i>Cell</i> , 2018, 173, 776-791.e17.	28.9	111
11	Dynamic Fluctuations in Subcellular Localization of the Hippo Pathway Effector Yorkie In Vivo. <i>Current Biology</i> , 2018, 28, 1651-1660.e4.	3.9	66
12	Instructions for Assembling the Early Mammalian Embryo. <i>Developmental Cell</i> , 2018, 45, 667-679.	7.0	80
13	Cell Fate Decisions During Preimplantation Mammalian Development. <i>Current Topics in Developmental Biology</i> , 2018, 128, 37-58.	2.2	23
14	209 Imaging the Molecular and Cell Dynamics that Form the Early Mouse Embryo. <i>Reproduction, Fertility and Development</i> , 2018, 30, 245.	0.4	0
15	How cells change shape and position in the early mammalian embryo. <i>Current Opinion in Cell Biology</i> , 2017, 44, 7-13.	5.4	21
16	A microtubule-organizing center directing intracellular transport in the early mouse embryo. <i>Science</i> , 2017, 357, 925-928.	12.6	101
17	Quantifying transcription factor-DNA binding in single cells in vivo with photoactivatable fluorescence correlation spectroscopy. <i>Nature Protocols</i> , 2017, 12, 1458-1471.	12.0	21
18	Mouse Embryo Compaction. <i>Current Topics in Developmental Biology</i> , 2016, 120, 235-258.	2.2	40

#	ARTICLE	IF	CITATIONS
19	Quantitative imaging of mammalian transcriptional dynamics: from single cells to whole embryos. BMC Biology, 2016, 14, 115.	3.8	13
20	Long-Lived Binding of Sox2 to DNA Predicts Cell Fate in the Four-Cell Mouse Embryo. Cell, 2016, 165, 75-87.	28.9	173
21	Exploring the Dynamics of Cell Processes through Simulations of Fluorescence Microscopy Experiments. Biophysical Journal, 2015, 108, 2613-2618.	0.5	16
22	The First Cell Fate Decision During Mammalian Development. , 2015, , 25-39.		0
23	How Adhesion Forms the Early Mammalian Embryo. Current Topics in Developmental Biology, 2015, 112, 1-17.	2.2	18
24	Cortical Tension Allocates the First Inner Cells of the Mammalian Embryo. Developmental Cell, 2015, 34, 435-447.	7.0	154
25	NKX2-5 mutations causative for congenital heart disease retain functionality and are directed to hundreds of targets. ELife, 2015, 4, .	6.0	54
26	Cadherin-dependent filopodia control preimplantation embryo compaction. Nature Cell Biology, 2013, 15, 1424-1433.	10.3	200
27	Probing transcription factor diffusion dynamics in the living mammalian embryo with photoactivatable fluorescence correlation spectroscopy. Nature Communications, 2013, 4, 1637.	12.8	74
28	Oct4 kinetics predict cell lineage patterning in the early mammalian embryo. Nature Cell Biology, 2011, 13, 117-123.	10.3	214
29	The Rostral Anterior Cingulate Cortex Modulates the Efficiency of Amygdala-Dependent Fear Learning. Biological Psychiatry, 2008, 63, 821-831.	1.3	119
30	Neurotrophin Receptor-Mediated Death of Misspecified Neurons Generated from Embryonic Stem Cells Lacking Pax6. Cell Stem Cell, 2007, 1, 529-540.	11.1	45
31	Identification of a lectin causing the degeneration of neuronal processes using engineered embryonic stem cells. Nature Neuroscience, 2007, 10, 712-719.	14.8	65
32	BMP controls nitric oxide-mediated regulation of cell numbers in the developing neural tube. Cell Death and Differentiation, 2004, 11, 832-841.	11.2	16
33	Nitric oxide is involved in establishing the balance between cell cycle progression and cell death in the developing neural tube. Experimental Cell Research, 2003, 288, 354-362.	2.6	37